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[patent claim series hierarchical geometric outline]

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Display of hierarchical three-dimensional structures with rotating substructures

GG Robertson, J Mackinlay... - US Patent 5,295,243, 1994 - Google Patents

... **US Patent** Mar ... Other conventional tech- was a continuation of application Ser ... different **geometry** that includes a different collection of BAF-imprtrwr* nc TWU TwvKxrTnw 10 nodes and Unks- But sometimes the user needs a rela- BACKGROUND OF THE INVENTION tiveiy sma]1 ...

Cited by 119 - Related articles - All 2 versions

Scanning techniques using hierarchical set of curves

JO O'reilly - US Patent 4,843,468, 1989 - Google Patents

... 6, 7 and 8 show the first, second and third 55 order to the next. ... means in a different given sequence.

I claim: **** 60 65 Page 19, US004843468B1 REEXAMINATION CERTIFICATE (2155th) United

States Patent m m Bi 4,843,468 Brewery [45] Certificate Issued Dec. ...

Cited by 33 - Related articles - All 2 versions

Method and apparatus for operating on the model data structure of an image to produce huma perceptible output using a viewing operation region having explicit ...

MC Stone, KP Fishkin... - US Patent 5,818,455, 1998 - Google Patents

... Computer Graphics Proceedings, Annual Conference **Series**, Kai's Power Tools for Windows
(v. 2.0), Data Sources ... Copending, concurrently filed, commonly assigned US **patent** applications
Ser. ... It is to be appreciated that the teachings of this application extends to these VORs. ...

Cited by 26 - Related articles - All 2 versions

Image having a hierarchical structure

JA Munro... - US Patent App. 09/757,741, 2001 - Google Patents

... PIXML specific- 1.0", as it appears in the **Patent** and Trademark Office **Patent** file or ... displays
and enables manipulation of multiple images through the use of a web-based application. ... The
multiple-image viewer allows for images to be comprised of a **hierarchical** system of ...

All 2 versions

Font architecture and creation tool for producing richer text

GA Hill, CB Browne, PQ Scott... - US Patent App. 09/153,077, 1998 - Google Patents

... Is then formed through the application of the complex font structures to each of a base font **outline**
in the **series** of font ... distorting, replacing or compos- iting the **outline** of a font and can further include
the tools for the application of morphological ... **Patent** Application Publication Sep ...

Cited by 2 - Related articles - All 4 versions

Copyright Protection of Computer Program Structure

DS Karjala - Brooklyn Law Review, 1998 - papers.ssm.com

... to a complex programming problem] can take the form of a flowchart, which will break down the
solution into a **series** of smaller units ... Were we to permit an author to **claim** copy- right protection
for those elements of the work that should be the province of **patent** law, we ...

Cited by 25 - Related articles - Bl. Direct - All 4 versions

Method for generating exposure data for lithographic apparatus

E. Murakami, H. Higurashi, S. Hara... - US Patent ..., 2009 - Google Patents

... 18, 1998 [30] Foreign Application Priority Data Mar ... US **Patent** 6,047,116 Apr ... OVERLAP
DETECTION "V-S024 ARRAY PITCH DISCRIMINATOR""]^S025 CELL RECONSTRUCTION

[S026 HIERARCHICAL OPTIMIZATION HIERARCHICAL GEOMETRIC OPERATION EXPOSURE ...Cited by 15 - Related articles - All 2 versions**Apparatus and method for implementing visual animation illustrating results of interactive editing operations**

TP Moran, P Chu, W Van Melle... - US Patent 5,880,743, 1999 - Google Patents

... 24, 1997 Related US Application Data [63] Continuation of Ser. ... Page 4. US Patent Mar ... 3 44 DETERMINE MODEL **STRUCTURE** 50 IDENTIFY OBJECTS AFFECTED BY OPERATION WITH RESPECT TO STRUCTURAL MODEL 52 COMPUTE **STRUCTURE** PARAMETERS FOR ...

Cited by 41 - Related articles - All 2 versions**Avoiding oscillation in interactive animation**

JD Mackinlay... - US Patent 5,384,908, 1995 - Google Patents

... US Patent 5,384,908 Jan ... The maintenance information can throughout this application, including the claims, indicate that the indicated level is being maintained, the "Data" refers ... To "obtain" or "produce" data is to perform any A "scene" is a **series** of one or more images that can ...

Cited by 17 - Related articles - All 2 versions**Design engine with tree and component structure**

MB Orr, NW Everett, GL Gardner, JD King... - US Patent ..., 1999 - Google Patents

... division data **structure** is associated with a parent component in a media tree **structure** of a ...

Compose For Particular Medium 18', '32' Composition-, , User Interface 18' Layout 39 30'

Application Program FIG. ... US Patent 5,903,902 May 11,1999 Sheet 7 of 47 Q_co CO § CO CD ...

Cited by 43 - Related articles - All 2 versions**Range image shape measurement using hierarchical ordering of multiresolution mesh data from delaunay triangulation**

H Yamamoto, T Ohshima... - US Patent 5,748,865, 1998 - Google Patents

Page 1. US005748865A United States Patent [w/ii] Patent Number: 5,748,865 [45] Date of Patent:

May 5, 1998 Yamamoto et al. [54] RANGE IMAGE SHAPE MEASUREMENT USING

HIERARCHICAL ORDERING OF ... 6,1994 [30] Foreign Application Priority Data Sep. ...

Cited by 17 - Related articles - All 2 versions**System for automatically aligning images to form a mosaic image**

PJ Burt, M Irani, SC Hsu, P Anandan... - US Patent ..., 1997 - Google Patents

... US Patent 5,649,032 Jul ... Dynamic mosaics are time variant in that 50 fcc application systems ... As display system 104 utilizes special mosaic storage and such, a **series** of input images (eg, video frames) are manipulation techniques that enable a system user to rapidly combined ...

Cited by 161 - Related articles - All 4 versions**Apparatus and method for geometric morphing**

H Edelsbrunner... - US Patent 5,850,229, 1998 - Google Patents

... Graphics 13 (1994), 43-72] which is expressly K=(M)= incorporated by reference in this **patent** application. ... gets smaller, the a-complex shrinks and may develops a-complex is a **geometric** realization of ... A particular piece of the complex disappears at the collection of Voronoi cells ...

Cited by 44 - Related articles - All 2 versions**Computer animation generator**

J Horikawa... - US Patent 5,983,568, 1999 - Google Patents

... US Patent Oct ... Further, according to Hugues Hoppe et al., "Mesh Optimization", Computer Graphics Proceedings, Annual Conference **Series**, SIGGRAPH 1993, a ... That is, the conventional method has problems such that application of the shape approximation is limited, a long ...

Cited by 4 - Related articles - All 4 versions**Hierarchical adaptive state machine for emulating and augmenting software**

MC Heimlich... - US Patent 5,903,886, 1999 - Google Patents

... The present invention defines a method for emulating an iterated process represented by a **series** of related ... US Patent 5,903,886 May 11,1999 Sheet 14 of 14 o^ RFd o o o D DC LU LU ... provisional 5 representation of the circuit and transforming it into a lower US application Ser. ...

Cited by 39 - Related articles - All 2 versions

Method and apparatus for performing mosaic based image compression

PJ Burt, M Irani, SC Hsu, P Anandan... - US Patent ... 1999 - Google Patents

... Bergen et al., "Hierarchical Model-Based Motion Estimation", Proceedings of European Conference on Computer Vision, Mar. 23, 1992. ... More specifically, the image alignment process automatically. This application is a divisional application of patent cally aligns one input image ...

Cited by 82 - Related articles - All 2 versions

User-directed interaction with an image structure map representation of an image

DH Marimont... - US Patent 5,710,877, 1998 - Google Patents

... Ketan Mulmuley, "Randomized Multidimensional Search Trees: Dynamic Sampling," Proceedings of the 7th ACM Symposium on Computational Geometry (SCO.) 1991, pp. ... 132-139. Nahred, A., and Peroche, B., "A 21/2-D **hierarchical** model based on planar maps ... US Patent Jan ...

Cited by 12 - Related articles - All 2 versions

Computer apparatus and method for graphical flip book

KC Knowlton - US Patent 5,283,864, 1994 - Google Patents

... US Patent 5,283,864 Feb. ... used »cons and inter- Qne rad (cover) of ^ book representation to ^ face graphics involves the two-dimensional **geometry** of ition ... representation is open (ie leaves of the first stack half) tlon- are displayed overlapping one another in **series** extend- FIG. ...

Cited by 75 - Related articles - All 6 versions

Data-handling and display system capable of supporting multiple application programs and output devices

RM Smith, DMT Ting, J Porter... - US Patent 5,212,770, 1993 - Google Patents

... US Patent 5,212,770 May 18, 1993 Sheet 4 of 4 LOCATE ALL VIEWPORTS WITHIN BOUNDARY OF WINDOW ,60 SORT BY PRIORITY ... The undipped portions of Viewports are also opened by the application pro- each viewport are resolved into a **series** of rectangles by ...

Cited by 38 - Related articles - All 2 versions

Apparatus and method for resource negotiations among autonomous agents

JQ Moody, I Glickstein... - US Patent App. 09/740,544, 2000 - Google Patents

... High Level Architecture View and Algorithm Flow Application, Constraints, Parameters and Objectives Strategic Layer Tactical Layer Computational **Geometry Hierarchical** Clustering Partition environment Assign costs/rewards for resources ... Patent Application Publication Nov. ...

Cited by 7 - Related articles - All 4 versions

Graphs employing clusters

SC North - US Patent 5,450,535, 1995 - Google Patents

... of 10 drawn in the output (see EB Messinger, LA Rowe representing **hierarchical** or asymmetric ... 876-892, July 1991.) This is a collection of the global layout is also informative ... These publications are hereby incorporated by refer- prior art; ence into the present **patent** application. ...

Cited by 35 - Related articles - All 9 versions

Detection of lines in images

MI Trifonov, OV Sharonova... - US Patent App. 09/897,736, 2001 - Google Patents

... 382/199 ABSTRACT A method of processing digital image data comprises overlaying a hexon pattern **structure** on the digital ... of groups of pixels surrounding the central area, the overlaying of the **geometric** pattern defining a **geometric** region in ... Patent Application Publication Jan ...

All 2 versions

Method and apparatus for operating on an object-based model data structure to produce a second image in the spatial context of a first image

MC Stone... - US Patent 5,596,690, 1997 - Google Patents

... 26 160 Output Display Circuitry 170 -211 186 —180 -722 Application Operation A V Viewing Operation 720 400 -772 Window ... US Patent 5,596,690 Jan ... response to user signal, produce image definition data defining second image using first image model data structure 420 460 ...

Cited by 39 - Related articles - All 2 versions

Scatter-gather: a cluster-based method and apparatus for browsing large document collections

JO Pedersen, D Karger, DR Cutting... - US Patent 5,442,778, 1995 - Google Patents

... text search tools, such as similar to the logical **structure** which represents the semantics search, or the search technique described in US patent 50 carried ... A virtual field separator application Ser. ... 3. Here the text collection 20 is an on- "weather", "astronomy" and "civil aviation". ...

Cited by 100 - Related articles - All 2 versions

Method and apparatus for performing data collection, interpretation and analysis, in an information platform

RJ Ainsbury, HK Al Hussein, MC Hinman... - US Patent ... 2000 - Google Patents

... 11 Specify Tool Document Analyzer /-W , , View Bin View **Geometry** View Multiple ... platform relies upon reliable, pre- H. Pajak, Electronic Library, European Patent Application 60 dictable ... books with data base metaphor, a reference books provides collection agents, which ...

Cited by 273 - Related articles - All 2 versions

Method and apparatus for the viewing and exploration of the content of hierarchical information

PS Newman... - US Patent App 09/954,530, 2001 - Google Patents

US 20040205536A1 (19) United States (12) Patent Application Publication (io> Pub, ... FOR THE VIEWING AND EXPLORATION OF THE CONTENT OF HIERARCHICAL INFORMATION (75 ... K. Card, Los Altos Hills, CA (US) Correspondence Address: Patent Documentation Center ...

Cited by 9 - Related articles - All 4 versions

Computer animation generator creating hierarchies of models for rapid display

J Horikawa... - US Patent 5,774,130, 1998 - Google Patents

... No.: 521,759 [22] Filed: Aug. 31, 1995 [30] Foreign Application Priority Data Sep. 8, 1994 [JP] Japan 6-240646 [51] Int. ... Page 10. US Patent 5,774,130 Jun. 30,1998 Sheet 9 of 10 O Ix Page 11. US Patent Jim. ... FIGS. 4A and 4B show an example in which the figure of FIG. ...

Cited by 20 - Related articles - All 2 versions

Apparatus for and method of calculating lens distortion factor, and computer readable storage medium having lens distortion factor calculation program recorded ...

N Chiba - US Patent App. 09/988,630, 2001 - Google Patents

... Patent Application Publication Aug ... method, see an article entitled by B. Lucas and T. Kanade, "An Iterative Image Registration Technique with an Application to Stereo ... are made: [0013] When v is very small, the terms of second and higher degrees in Tailor **series** expansion can ...

All 2 versions

Methods and apparatus for registering CT-scan data to multiple fluoroscopic images

AP Gueziec, P Kazanzides ... - US Patent 5,951,475, 1999 - Google Patents

... 17 Page 19. US Patent Sep. ... A **hierarchical** volume is built that is used to query the closest point from anatomical surfaces to projection lines. ... FIGS. 7A and 7B depict CT segmentation, and show a slice of the distal femur with artifacts and poor contrast (FIG. ...

Cited by 95 - Related articles - All 2 versions

Systems and methods for representing and displaying graphics

ST Polter, M Levine - US Patent App. 09/988,867, 2001 - Google Patents

... Patent Application Publication Aug. ... Various embodiments and features of the present invention

are described, for example, in US Provisional Application No ... General shapes can be represented as vector data by defining the shapes as a **series** of points which **outline** the shape ...

[All 3 versions](#)

Apparatus and method for controlling allocation of resources and task execution

JO Moody, I Glickstein... - US Patent App. 69/740,418, 2000 - Google Patents

... **Patent** Application Publication Jan. ... Logis- tics is a prime example of one such application, but examples also include process control and flexible manu ... aid for human decision makers or serve as the central nervous system of a completely autonomous collection of cybernetic ...

[Cited by 10 - Related articles](#) - [All 4 versions](#)

Method and apparatus for generating package geometries

LH Chung, TM Ling, HW Chung... - US Patent App. 10/... 2001 - Google Patents

... RELATED APPLICATION DATA [0001] This application is a Continuation of US **Patent** Application Ser. ... The information in a package dimension scheme in file 66 includes a **series** of package ... to create graphics or leads (pins) not covered by rules supplied with the application. ...

[All 2 versions](#)

Intelligent font rendering co-processor

CR Hassett, HJ Collins... - US Patent 5,301,267, 1994 - Google Patents

... INDS APPLY HINTS IF ANY CALCULATE DIFFERENCES: DS'-DS DERIVE TRANSFORMATION MATRIX LIST -115 MAP CS—>DS' APPLY MATRIX LIST TO ANY DESIRED POINT -116 LINEARIZE OUTLINE -117 FILL AND RASTERIZE -118 F/G.5 Page 6. US **Patent** Apr. ...

[Cited by 60 - Related articles](#) - [All 8 versions](#)

Rapid prototyping method

GL Thomas .. - US Patent 5,663,883, 1997 - Google Patents

... **US Patent** Sep. ... In other instances, they may be used as paper method which has particular application in the field of 65 molds from which to ... 9 is a flow diagram illustrating an investment casting erating a **series** of cross sections, slicing the part into many procedure utilizing ...

[Cited by 25 - Related articles](#) - [All 4 versions](#)

Shape measuring apparatus

H Yamamoto, T Ohshima... - US Patent 5,862,252, 1999 - Google Patents

Page 1. United States **Patent** Yamamoto et al. US005862252A [ii] Patent Number: [45] Date of **Patent**: 5,862,252 Jan. ... No.: 778,572 [22] Filed: Jan. 3, 1997 Related US Application Data [62] Division of Ser. No. 300,997, Sep. 6, 1994, Pat. No. 5,748, 865. ...

[Cited by 13 - Related articles](#) - [All 2 versions](#)

Multipass graphics rendering method and apparatus with re-traverse flag

D Jevans - US Patent 5,561,752, 1996 - Google Patents

... document or the **patent** disclosure, as it appears in the **US Patent** and Trademark ... does not maintain a model database from scene-to- scene, although the application program may ... for visualization of simulations, previewing of animation sequences, or reading a **series** of models ...

[Cited by 42 - Related articles](#) - [All 2 versions](#)

Producing a rendered image version of an original image using an image **structure** map representation of the image

DH Marimont... - US Patent 5,809,179, 1998 - Google Patents

... that are the subject matter of previously filed, commonly assigned **US patent** applications having the ... The application has the capability to keep color within broken lines, and includes an ... rendered from a vector representation having such problems may not show image regions ...

[Cited by 27 - Related articles](#) - [All 2 versions](#)

Method for improving accessibility of a computer display

CL Berman - US Patent App. 09/912,380, 2001 - Google Patents

... Patent Application Publication Jan. ... [0007] Accessibility refers to the ease with which a user may select among the alternative actions presented by an application. ... 1, there is shown an illustrative web page which will be used to show the process implemented by the present ...

All 2 versions

Game program delivery system and apparatus used in same

S Taho, H Akasaka ... - US Patent App. 09/774,661, 2001 - Google Patents

Page 1. US 20010029205A1 (19) United States (12) Patent Application Publication (io> Pub. NO.: US 2001/0029205 Al Taho et al. (43) Pub. Date: Oct. 11,2001 (54 ... program. 10 Page 2. Patent Application Publication Oct. 11,2001 ...

All 2 versions

Computer system with handwriting annotation

BQ Tran - US Patent 6,054,900, 2000 - Google Patents

... 77099 [*] Notice: This patent issued on a continued pros- ecution application filed under 37 CFR 1.53(d), and is subject ... US Patent 6,054,900 Apr. 25, 2000 Sheet 3 of 19 (MAGNIFIER 120 DISPLAY MAGNIFIER AND OUTLINE BOX i 121 SHOW ENLARGED OBJECTS INSIDE ...

Cited by 93 - Related articles - All 3 versions

Quality control mechanism for three-dimensional graphics rendering

PJ Schneider. ... - US Patent 5,777,621, 1998 - Google Patents

... also can be used easily as or the patent disclosure, as it appears in the US Patent and a ... StarBase is described in "Star- scene, although the application program may do so. ... two-dimensional) scene on different graphics output sequences, or reading a series of models from a file. ...

Cited by 16 - Related articles - All 2 versions

[PDF] Telerobotics Systems using Virtual Environment Display with Visual and Force Display Functions

B Brunner, J Heindl, G Hirzinger ... - Proc. IEEE International ... , 1993 - Citeseer

... First we have introduced this new approach with respect to the application areas of time delayed teleoperation and graphical offline robot ... US Patent No. ... in: Machine Intelligence and Knowledge Engineering for Robotic Applications, NATO ASI Series F33, Springer, Berlin, 1987. ...

Cited by 2 - Related articles - View as HTML - All 6 versions

Variable latency and bandwidth communication pathways

JA Lambrecht. ... - US Patent 5,935,232, 1999 - Google Patents

... WIPO . OTHER PUBLICATIONS Itano, et al "HIRE: A Hierarchical Ring Bus" University of Tsukuba, Japan ... 5000-95700), whose inventor was Alfred C. Hartmann; and US patent application Ser ... a component of a system described in this document will be to show multiple instances ...

Cited by 17 - Related articles - All 2 versions

... and solution structure of a renin inhibitor Structural constraints from NOE, and homonuclear heteronuclear coupling constants combined with distance geometry ...

MD Reilly, V Thanabal, EA Lunney, JT Repine. ... - FEBS letters, 1992 - Elsevier

... constants were measured directly from spectra that were resolution enhanced by application of a ... Of the eleven structures minimized from the cpos series, two structures (cpos29 and cpos236 ... Co., Rockford, IL, 1985, 747750, [6] BOCSta prepared as per US Patent 4,650,897. ...

Related articles - All 3 versions

Apparatus and methods for creating and using portable fonts

JS Collins. ... - US Patent 5,577,177, 1996 - Google Patents

... No.: 448,792 [22] Filed: May 24,1995 Related US Application Data [62] Division of ... 395/155, 161, 141, 142, 143, 133 [56] References Cited US PATENT DOCUMENTS 4,785,391 ... font description between such description-independent points, and it picks the outline order, starting ...

Cited by 19 - Related articles - All 8 versions

[PDF] Structure and formation of the egg capsule tendrils in the dogfish *Scyliorhinus canicula*

D Feng, DP Knight - *Philosophical Transactions: Biological Sciences*, 1994 - JSTOR

... How collagenous self-assemble into complex structures exhibiting order at several **hierarchical** levels (Lakes 1993; Van ... Figure 5. Diagram of a TS of part of a forming tendon to show how canaliculi ... handed twisting of the egg capsule itself about its long axis and the **geometry** of the ...

Cited by 6 - Related articles - All 4 versions

Method for min-cut and ratio min-cut partitioning

KH Cheng ... - US Patent App. 09/765,921, 2001 - Google Patents

Page 1, US 20020100008A1 (19) United States (12) Patent Application Publication (io> Pub.

NO: US 2002/0100008 AI Cheng et al. (43) Pub. Date: Jul. ... Page 2. Patent Application Publication Jul. 25,2002 Sheet 1 of 18 US 2002/0100008 AI E E ... * . Fig. 2 ...

All 4 versions

System and method for performing a three-dimensional virtual segmentation and examination

AE Kaufman, Z Liang, MR Wax, M Wan ... - US Patent ..., 2001 - Google Patents

... a Three Dimensional Virtual Examination," and also claims the benefit of United States Provisional Patent Application, Serial No. ... One such application is performing a virtual endo- scopy ... 17 is a perspective view diagram of an intensity vector **structure** including a voxel of interest ...

Cited by 35 - Related articles - All 5 versions

System for automatically generating database of objects of interest by analysis of images recon by moving vehicle

RA Laumeyer... - US Patent App. 09/833,816, 2001 - Google Patents

... BACKGROUND OF THE INVENTION [0002] Prior art devices described in the relevant patent literature for ... Thus, output signal sets resulting from application of the present method to a segment of ... with reference to one or more preferred embodiments wherein a **series** of image ...

Cited by 16 - Related articles - All 4 versions

Magnetic bearing systems

DW Lewis, RR Humphris, EH Maslen... - US Patent ..., 1994 - Google Patents

... No. 07/359,772 now abandoned, filed May 31, 1989, which is a continuation-in-part of US patent application Ser. ... 1. The rotor includes a multiplicity of masses distributed along a flexible shaft, or in some designs, the flexible shaft is replaced by a **series** of equivalent rings or ...

Cited by 23 - Related articles - All 2 versions

Method and apparatus for rapidly determining whether a digitized image frame contains an obj interest

RA Laumeyer... - US Patent App. 09/772,191, 2001 - Google Patents

... BACKGROUND OF THE INVENTION [0002] Prior art devices described in the relevant patent literature for ... Thus, output signal sets resulting from application of the present method to a segment of ... with reference to one or more preferred embodiments wherein a **series** of image ...

Cited by 12 - Related articles - All 4 versions

Mechanism for rendering scenes using an object drawing subsystem

D Jevans - US Patent 5,986,667, 1999 - Google Patents

... patent disclosure as it appears in the US Patent and Trademark Office patent file or ... not maintain a model database from scene-to- 45 scene, although the application program may ... for visualization of simulations, previewing of animation sequences, or reading a **series** of models ...

Cited by 25 - Related articles - All 2 versions

Method and apparatus for generating a database of road sign images and positions

RA Laumeyer... - US Patent App. 09/812,753, 2001 - Google Patents

... BACKGROUND OF THE INVENTION [0002] Prior art devices described in the relevant **patent** literature for ... Thus, output signal sets resulting from application of the present method to a segment of ... with reference to one or more preferred embodiments wherein a **series** of image ...

Cited by 11 - Related articles - All 4 versions

System and method for performing a three-dimensional examination with collapse correction

AE Kaufman, Z Liang, MR Wax, ... - ... Patent App. 09/574,569, 2001 - Google Patents

... **Patent** Application Publication Apr. ... DETAILED DESCRIPTION [0051] While the methods and systems described in this application can be applied to any object to be ... Voxel data representing an object can be derived from a **geometric** model by techniques described in US Pat. ...

Cited by 16 - Related articles - All 4 versions

Satellite camera attitude determination and image navigation by means of earth edge and landr measurement

AA Kamel, ... - US Patent 6,023,291, 2000 - Google Patents

... 10 The disclosure of this Provisional **Patent** Application is incorporated by reference herein in its ... is a function of roll misalignment and pitch misalignment, weighted by a **geometric** factor depend ... 3=(<| 9,|),ma,9ma) can therefore be represented as a time **series** as follows: ? ...

Cited by 13 - Related articles - All 4 versions

Perceptual method for browsing, searching, querying and visualizing collections of digital image

A Mojstrovic, ... - US Patent App. 10/033,597, 2001 - Google Patents

... J 4 1 T ¥ 81 « « Page 6. **Patent** Application Publication Jul. 3,2003 Sheet 5 of 9 US 2003/0123737 AI USER SELECTS IMAGE COLLECTION, DATABASE OR , DIRECTORY, ETC. TO BE SEARCHED i USER SUPPLIES QUERY ...

All 2 versions

Automated re-layout with dimensional associativity

OA Hirr Jr, NH MacNeil, ... - US Patent 5,297,241, 1994 - Google Patents

... US **Patent** Mar. ... workstation 140, whose princi solid lines, show all edges with visible as solid lines and hidden as dashed lines, or show all edges ... pro-gresses rapidly because the views are initially depicted 60 in **outline** form so there is little time lost in redrawing the **geometry**. ...

Cited by 27 - Related articles - All 3 versions

Method and apparatus for producing a composite second image in the spatial context of a first image

MC Stone, EA Bier, KP Fishkin, ... - US Patent 5,479,603, 1995 - Google Patents

... l f k Image Data M odel Data > 840 / Procedure Library (Instruction and Model Data) _^-' Fig.28 850 Application Operation (Instruction ... US **Patent** 5,479,603 Dec ... Sheet 18 of 19 Image Definition Data 816 . 1. Create Image Definition Data, Display 804 Graphics Data **Structure** 814 1 ...

Cited by 44 - Related articles - All 3 versions

Design engine for fitting content to a medium

JD King, G Von Limbach, MB McDonald, ... - US Patent ... , 1999 - Google Patents

... 11, 1994, v11 nk27, p. 33(1). European Paten O&ice, "Patent Cooperation Treaty Interna- tional Preliminary Examination Report" May 12, 1998; International application No. PCT/US97/15660. Page 3. US **Patent** 5,956,737 Sep. 21,1999 Sheet 1 of 47 FIG. ...

Cited by 64 - Related articles - All 4 versions

Method of generalized content-scalable shape representation and coding

RJ Qian, ... - US Patent 6,011,872, 2000 - Google Patents

... US **Patent** 6,011,872 Jan. ... shape recognition include methods such as that used in the WebSEEK program, which searches 30 a collection of computer ... In a spatially-scalable coding application, the decoder reconstructs a spatially lower resolution of the video objects, and hence ...

Cited by 8 - Related articles - All 4 versions

Multisite coordination in shared multicast trees

JJ Garcia-Luna-Aceves... - US Patent App. 09/892,708, 2001 - Google Patents

... Patent Application Publication Mar. ... CROSS-REFERENCE TO RELATED APPLICATIONS [0001]
This application claims priority from US provisional application serial No ... coordination in relation to face-to-face meetings has been studied, and those studies show that greediness ...

Related articles - All 3 versions

Design engine for automatic layout of content

MB Orr, KS Brinzenhofe, JD King... - US Patent ... 1999 - Google Patents

... User Interface 18' Layout 39 30 Application Program FIG. ... US Patent 5,895,477 Apr. 20, 1999
Sheet 9 of 47 fCaptionex V (Outline) X Pull Quote (Product Body YMemo"to" LineJ (Tagline I
NL Banner Reduced (Kicker Body Y XMemo "From" Line NL Banner Center JL Banner Toj ...
Cited by 37 - Related articles - All 3 versions

Describing scales of features in river channels using fractal geometry concepts

J Nestler. . - Regulated Rivers. Research & ... 2000 - interscience.wiley.com

... a scale of about 480 m that conveys most of the flow and a collection of much ... Application of these tools to a Missouri River cross section demonstrates their ability to detect ... USA Patents and Trademarks Office Patent Numbers 5,790,434 and 5,913,179 have been awarded to the ...
Cited by 17 - Related articles - All Direct - All 3 versions

Multiple-image viewer

JA Munro - US Patent App. 09/757,561, 2001 - Google Patents

... Patent Application Publication Mar. ... In one embodiment, multiple-image viewer 102 displays and enables manipulation of multiple images through the use of a web-based application. ... 0040] The multiple-image viewer allows for images to be comprised of a **hierarchical** system of ...
All 2 versions

Script/binary-encoded-character processing method and system with moving space insertion m

MD Forcier - US Patent 5,220,649, 1993 - Google Patents

Page 1. US005220649A United States Patent [19] Forcier [ii] Patent Number: [45] Date of Patent: 5,220,649 Jun. ... 94598 [21] Appl. No.: 693,316 [22] Filed: Apr. 29, 1991 Related US Application Data [63] Continuation-in-part of Ser. No. 673,292, Mar. 20, 1991. [51] Int. ...
Cited by 104 - Related articles - All 6 versions

Encoding and progressive transmission of progressive meshes

HH Hoppe - US Patent 5,963,209, 1999 - Google Patents

... Patent Hoppe US005963209A [ii] Patent Number: [45] Date of Patent: 5,963,209 Oct. ... et al., "Spherical Wavelets," Computer Graphics Proceedings, Annual Conference Series, 161-172 ... Varshney, **Hierarchical Geometric Approximations**, University Microfilms International (1994 ...
Cited by 35 - Related articles - All 3 versions

METHOD AND APPARATUS FOR ANALYZING AN IMAGE TO DIRECT AND IDENTIFY PATTERNS

GJ Vachtsevanos, J Echauz, M Mufti... - US Patent App. 09/ ... 1999 - Google Patents

... Patent Application Publication May 9,2002 Sheet 15 of 15 US 2002/0054694 A1 Image ... [0022]
Product characterization is another very important application area of ... A1 May 9, 2002 It provides the essential framework for the completely localized and **hierarchical** training afforded ...
Cited by 52 - Related articles - All 4 versions

Polymorphic graphic device

JG Harris - US Patent 5,394,523, 1993 - Google Patents

Page 1. US005394523A United States Patent [19] Harris [ii] Patent Number: [45] Date of Patent: 5,394,523 Feb. 28,1995 [54] POLYMORPHIC GRAPHIC DEVICE [75] Inventor: Jerry G. Harris, Sunnyvale, Calif. ... Page 2. US Patent 5,394,523 Feb. 28, 1995 Sheet 1 of 23 O LL Page 3 ...

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Design engine for automatic reformatting for design and media

MB Orr, KS Brantzenhoff, JD King, ... - US Patent ..., 1999 - Google Patents

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System and method for performing a three-dimensional virtual segmentation and examination via optical texture mapping

AE Kaufman, Z Liang, MR Wax, ... - Patent App. 09/974,548, 2001 - Google Patents

... Patent Application Publication Apr. ... DETAILED DESCRIPTION [0051] While the methods and systems described in this application can be applied to any object to be ... Voxel data representing an object can be derived from a geometric model by techniques described in US Pat. ...

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Method and apparatus for composing layered synthetic graphics filters

EA Bier - US Patent 6,072,501, 2000 - Google Patents

... Proceedings of SIGGRAPH '93 (Anaheim, CA, Aug.), Computer Graphics Annual Conference Series, ACM, 1993, pp. ... LAYERED SYNTHETIC GRAPHICS FILTERS CROSS-REFERENCE TO RELATED 5 APPLICATION Cross-reference is made to US patent application Ser. ...

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RN Perry, ... - US Patent App. 09/810,841, 2001 - Google Patents

... Patent Application Publication Sep. ..., 19, 2002 HIERARCHICAL CONTROL POINT EDITING OF ADAPTIVELY SAMPLED DISTANCE FIELDS FIELD OF THE INVENTION [0001] The invention relates generally to the field of computer ... Dynamic NURBS with geometric constraints for ...

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HH Hoppe - US Patent 5,929,860, 1999 - Google Patents

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E Gever, N Hermoni, O Bergman, G Tayar, ... - US Patent ..., 2001 - Google Patents

... Ben-Shemesh, all of (IL) (73) Assignee: Zapa Digital Arts Ltd., Tel Aviv (IL) (*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 USC 154(b) by 0 days. (21) Appl. No.: 08/819,607 (22) Filed: Mar. 14, 1997 Related US Application Data (60) ...

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Method and apparatus for document element classification by analysis of major white region geometry

M Ozaki - US Patent 5,574,802, 1996 - Google Patents

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Rapid product realization from detail design

SE Sarma, S Schofield, J Stori, J MacFarlane ... - Computer-Aided ..., 1996 - Elsevier

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RN Perry ... - US Patent App. 09/811,019, 2001 - Google Patents

... Application/User Requests 100 / 131 ~J-1 P Cache T33 800 103 5 3D model, range date * ^ BDT Generator RJDEI mm __ Generation -1 parameters 135-v 104 Local regeneration (tool path + geometry) 1/1 1k --* Edit parameters -i ... Page 2. Patent Application Publication Sep. ...

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JS Kresge, DN Light ... - US Patent 5,574,630, 1996 - Google Patents

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DH Marimont ... - US Patent 5,751,852, 1998 - Google Patents

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User interface system having programmable user interface elements

IS Small, M Chen, EL Zarakov, RL Mander ... - US Patent ..., 1999 - Google Patents

... [73] Assignee: Apple Computer, Inc., Cupertino, Calif. [*] Notice: This patent is subject to a terminal disclaimer. [21] Appl. No.: 08/294,242 [22] Filed: Aug. 22, 1994 [63] [51] [52] [58] [56] Related US Application Data Continuation-in-part of application No. 07/940,237, Sep. ...

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K Kautto-Koivula, M Huhtaniemi ... - US Patent App. 10/ ... , 2001 - Google Patents

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M Hearst - 1994 - eecs berkeley edu

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Examples of successful crystal **structure** prediction: polymorphs of primidone and progesterone

RS Payne, RJ Roberts, RC Rowe ... - International journal of ... , 1999 - Elsevier

... Observations related to the application of the **structure** prediction process are reported. ... which was obtained from a laboratory instrument (Siemens D5000 using Bragg-Brentano **geometry**). ... These show excellent agreement, having the same hydrogen bonding pattern, but in the ...

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RN Perry ... - US Patent App. 09/810,951, 2001 - Google Patents

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C Kamath, CH Baldwin, IK Fodor, ... Patent App. 09/877,962, 2001 - Google Patents
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Three-dimensional CAD system and recording medium for three-dimensional CAD system

Y Yoshida, ... - US Patent App. 09/797,003, 2001 - Google Patents
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A feature-based approach towards an integrated product model including conceptual design information

G Brunetti, ... - Computer-Aided Design, 2000 - Elsevier
... clarification of the design task to be performed and involves the collection of information ... is supported by creative methods (eg brainstorming or method 635), conventional methods (**patent** searches, etc ... The feature model is built by application specific features like a screw hole or ...
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GA Allan - US Patent 6,066,179, 2000 - Google Patents
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T Okino, T Fujiwara, ... - US Patent App. 09/795,258, 2001 - Google Patents
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[BOOK] Understanding the manufacturing process: key to successful CAD/CAM implementation

J Harrington - 1984 - books.google.com
... I cut a piece of plywood of the right thickness to the exact convoluted **outline** needed to ... When manufacturing was still an art, or rather a collection of very different arts, each had its ... the key to

understanding the science, and understanding is the key to profitable application of the ...
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[PDF] [Software Litigation in the Year 2000: The Effect of Object-Oriented Design Methodologies Traditional Software Jurisprudence](#)

DM Barkan - Berkeley Technology Law Journal, 1992 - law.berkeley.edu

... Finally, Part VI considers the potential effects that copyright and **patent** protection would have on the ... the top-down approach forces programmers to think in terms of a **series** of single ... This inheritance concept can be easily applied to the **structure** of the QuadWorld application. ...

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